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CLAIMS

We claim:

- 1. A decorative laminate comprising, in order in the following superimposed relationship:
- a decorative layer; and a core layer comprising PETG.
 - 2. The decorative laminate of claim 1, wherein said decorative laminate is a high pressure decorative laminate.
 - 3. The decorative laminate of claim 1 wherein said decorative laminate is a low pressure decorative laminate.
 - 4. The decorative laminate of claim 1 wherein said decorative laminate is a continuous laminate.
 - 5. The decorative laminate of claim 1 wherein said PETG comprises at least one sheet of PETG.
 - 6. The decorative laminate of claim 1, wherein said core layer further comprises at least one layer of a woven or non-woven sheet formed from a material selected from the group consisting of glass, carbon or polymeric fiber.
 - 7. The decorative laminate of claim 6, wherein said at least one layer is sandwiched in between two PETG sheets.

- 8. The decorative laminate of claim 1, wherein said decorative laminate further comprises an overlay layer on top of said decorative layer.
- 9. The decorative laminate of claim 8, wherein said overlay layer includes abrasive particles.
- The decorative laminate of claim 9, wherein said abrasive particles comprise alumina.
 - 11. The decorative laminate of claim 8, wherein said overlay layer is impregnated with a melamine formaldehyde resin.
 - 12. The decorative laminate of claim 1, wherein said decorative layer is impregnated with a melamine formaldehyde resin.
 - 13. The decorative laminate of claim 1, wherein said decorative layer includes a printed pattern.
 - 14. A decorative laminate comprising, in order in the following superimposed relationship:
- 15 a wear resistant layer;
 - a decorative layer; and
 - a core layer comprising at least one sheet of PETG.
 - 15. The decorative laminate of claim 14, wherein said decorative laminate is a high pressure decorative laminate.

- 16. The decorative laminate of claim 14, wherein said decorative laminate is a low pressure decorative laminate.
- 17. The decorative laminate of claim 14, wherein said decorative laminate is a continuous laminate.
- The decorative laminate of claim 14, wherein said wear resistant layer is an overlay layer on top of said decorative layer, said overlay layer including abrasive particles.
 - 19. The decorative laminate of claim 18, wherein said abrasive particles comprise alumina.
 - 20. A decorative laminate assembly comprising, in order in the following superimposed relationship:
 - (a) a decorative laminate top layer assembly comprising, in order in a superimposed relationship:
 - (i) a decorative layer,
 - (ii) a core layer comprising PETG; and
 - (b) a substrate attached to said decorative laminate top layer assembly.
 - 21. The decorative laminate of claim 20, wherein said decorative laminate is a high pressure decorative laminate.
 - 22. The decorative laminate of claim 20 wherein said decorative laminate is a low pressure decorative laminate.

- 23. The decorative laminate of claim 20, wherein said decorative laminate is continuous laminate.
- 24. The decorative laminate of claim 20, wherein said PETG is at least one sheet of PETG.
- 5 25. The decorative laminate of claim 20, wherein said core layer further comprises at least one layer of a woven or non-woven sheet formed from a material selected from the group consisting of glass, carbon or polymeric fiber.
 - 26. The decorative laminate of claim 25 wherein said at least one layer is sandwiched in between two PETG sheets.
 - 27. The decorative laminate of claim 20, wherein said decorative laminate further comprises an overlay layer on top of said decorative layer.
 - 28. The decorative laminate of claim 27, wherein said overlay layer includes abrasive particles.
- The decorative laminate assembly of claim 20, wherein said substrate is water resistant.
 - 30. The decorative laminate assembly of claim 29, wherein said water resistant substrate comprises polyvinyl chloride.
 - 31. The decorative laminate assembly of claim 29, wherein said water resistant substrate comprises fiber reinforced cement board.

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- 32. The decorative laminate assembly of claim 20, wherein said substrate is attached to said top layer assembly with a water resistant adhesive.
- 33. A decorative laminate assembly comprising, in order in the following superimposed relationship:
- (a) a high pressure decorative laminate top layer assembly comprising, in order in a superimposed relationship:
 - (i) a wear resistant layer;
 - (ii) a decorative layer; and
 - (iii) a core layer comprising PETG;
 - (b) a water resistant adhesive layer;
 - (c) a water resistant substrate, wherein said water resistant adhesive layer bonds together said top layer assembly to said water resistant substrate.
 - 34. The decorative laminate of claim 33, wherein said decorative laminate is a high pressure decorative laminate.
- 35. The decorative laminate of claim 33, wherein said decorative laminate is a low pressure decorative laminate.
 - 36. The decorative laminate of claim 33, wherein said decorative laminate is continuous laminate.
- The decorative laminate of claim 33, wherein said PETG is at least one sheet of PETG.

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- 38. The decorative laminate of claim 33, wherein said wear resistant layer is an overlay layer on top of said decorative layer, said overlay layer including abrasive particles.
- 39. The decorative laminate assembly of claim 32, wherein said water resistant substrate comprises polyvinyl chloride.
- 40. The decorative laminate assembly of claim 33, wherein said water resistant substrate comprises fiber reinforced cement board.
 - 41. The decorative laminate of claim 33, wherein said core layer further comprises at least one layer of a woven or non-woven sheet formed from a material selected from the group consisting of glass, carbon or polymeric fiber.
- 42. The decorative laminate assembly of claim 41, wherein said at least one layer is sandwiched in between two PETG sheets.
 - 43. A method for producing a decorative laminate comprising:
- (a) assembling, in order in the following superimposed relationship, a wear resistant layer, a decorative layer, and a core layer, said core layer comprising PETG; and
- (b) subjecting said assembly to heat and pressure, thereby laminating said assembly.
- 44. The method of claim 43, wherein said wear resistant layer is an overlay layer, said overlay layer including abrasive particles.
- 45. The method of claim 43, wherein said PETG is 0.020 inches thick.

- 46. The method of claim 43, wherein said pressure is between 1000 and 1200 psig.
- 47. The method of claim 46, wherein said temperature is between 125°C and 127°C.
- 48. The method of claim 47, wherein said heat and pressure is maintained for 25-
 - 49. The method of claim 43, further comprising bonding said overlay layer, decorative layer, and core layer to a water resistant substrate after said subjecting to heat and pressure laminating step.
 - 50. The method of claim 49, wherein said water resistant substrate comprises PVC.
 - 51. The method of claim 49, wherein said water resistant substrate comprises fiber reinforced cement board.
 - 52. The method of claim 49, wherein said PETG comprises at least one sheet of PETG.
- 15 53. A decorative laminate assembly comprising, in order in the following superimposed relationship:
 - (a) a decorative laminate top layer comprising, in order in a superimposed relationship:
 - (i) a decorative layer,

(ii) a core layer comprising PETG; and

- (b) a substrate directly bonded to said decorative laminate top layer assembly.
- 54. The decorative laminate of claim 53, wherein said decorative laminate is a high pressure decorative laminate.
- 5 55. The decorative laminate of claim 53, wherein said decorative laminate is a low pressure decorative laminate.
 - 56. The decorative laminate of claim 53, wherein said decorative laminate is continuous laminate.
 - 57. The decorative laminate of claim 53, wherein said PETG comprises at least one sheet of PETG.
 - 58. The decorative laminate of claim 53, wherein said core layer further comprises at least one layer of a woven or non-woven sheet formed from a material selected from the group consisting of glass, carbon or polymeric fiber.
- 59. The decorative laminate of claim 58, wherein said at least one layer is sandwiched in between two PETG sheets.
 - 60. The decorative laminate of claim 53, wherein said decorative laminate further comprises an overlay layer on top of said decorative layer.
 - 61. The decorative laminate of claim 60, wherein said overlay layer includes abrasive particles.

- 62. The decorative laminate assembly of claim 53, wherein said substrate is water resistant.
- 63. The decorative laminate assembly of claim 62, wherein said water resistant substrate comprises polyvinyl chloride.
- 5 64. The decorative laminate assembly of claim 62, wherein said water resistant substrate comprises fiber reinforced cement board.
 - 65. A decorative laminate assembly comprising, in order in the following superimposed relationship:
- (a) a decorative laminate top layer comprising, in order in a superimposed relationship:
 - (i) a wear resistant layer;
 - (ii) a decorative layer; and
 - (iii) a core layer comprising PETG;
- (b) a water resistant substrate, wherein said water resistant substrate is directly bonded to said core layer.
 - 66. The decorative laminate of claim 65, wherein said decorative laminate is a high pressure decorative laminate.
 - 67. The decorative laminate of claim 65, wherein said decorative laminate is a low pressure decorative laminate.

- 68. The decorative laminate of claim 65, wherein said decorative laminate is continuous laminate.
- 69. The decorative laminate of claim 65, wherein said PETG comprises at least one sheet of PETG.
- 70. The decorative laminate of claim 65, wherein said wear resistant layer is an overlay layer on top of said decorative layer, said overlay layer including abrasive particles.
 - 71. The decorative laminate assembly of claim 65, wherein said water resistant substrate comprises polyvinyl chloride.
 - 72. The decorative laminate assembly of claim 65, wherein said water resistant substrate comprises fiber reinforced cement board.
 - 73. The decorative laminate of claim 65, wherein said core layer further comprises at least one layer of a woven or non-woven sheet formed from a material selected from the group consisting of glass, carbon or polymeric fiber.
- 74. The decorative laminate assembly of claim 73, wherein said at least one layer is sandwiched in between two PETG sheets.
 - 75. A method for producing a decorative laminate comprising:
 - (a) assembling, in order in the following superimposed relationship, a wear resistant layer, a decorative layer, a core layer, said core layer comprising PETG, and a substrate; and

- (b) subjecting said assembly to heat and pressure, thereby laminating said assembly.
- 76. The method of claim 75, wherein said wear resistant layer is an overlay layer, said overlay layer including abrasive particles.
 - 77. The method of claim 75, wherein said PETG is 0.020 inches thick.
 - 78. The method of claim 75, wherein said pressure is between 400 and 600 psig.
- 79. The method of claim 78, wherein said temperature is between 125°C and 127°C.
- 80. The method of claim 79, wherein said heat and pressure is maintained for 2510 30 minutes.
 - 81. The method of claim 75, wherein said substrate comprises PVC.
 - 82. The method of claim 75, wherein said substrate comprises fiber reinforced cement board.
- 83. The method of claim 75, wherein said PETG comprises at least one sheet of PETG.
 - 84. A decorative laminate assembly comprising, in order in the following superimposed relationship:
 - (a) a decorative laminate top layer comprising, in order in a superimposed relationship:

- (i) a decorative layer,
- (ii) a core layer comprising a polymeric material; and
- (b) a substrate bonded to said decorative laminate top layer assembly.
- 85. The decorative laminate of claim 84 wherein said decorative laminate is a high pressure decorative laminate.
 - 86. The decorative laminate of claim 84, wherein said decorative laminate is a low pressure decorative laminate.
 - 87. The decorative laminate of claim 84, wherein said decorative laminate is continuous laminate.
 - 88. The decorative laminate of claim 84, wherein said polymeric material comprises PETG.
 - 89. The decorative laminate of claim 84, wherein said polymeric material comprises PCTG.
- 90. The decorative laminate of claim 84, wherein said substrate is directly bonded to said top layer assembly.
 - 91. The decorative laminate of claim 84, wherein said decorative laminate further comprises an overlay layer on top of said decorative layer.
 - 92. The decorative laminate of claim 91, wherein said overlay layer includes abrasive particles.

- 93. The decorative laminate assembly of claim 84, wherein said substrate is water resistant.
- 94. The decorative laminate assembly of claim 93, wherein said water resistant substrate comprises polyvinyl chloride.
- 5 95. The decorative laminate assembly of claim 93, wherein said water resistant substrate comprises fiber reinforced cement board.
 - 96. A decorative laminate assembly comprising, in order in the following superimposed relationship:
 - (a) a decorative laminate top layer assembly comprising, in order in a superimposed relationship:
 - (i) a decorative layer,
 - (ii) a core layer comprising a polymeric material; and
- (b) a substrate attached to said decorative laminate top layer assembly, whereinsaid substrate comprises polyvinyl chloride.
 - 97. The decorative laminate of claim 96, wherein said substrate comprises a first polyvinyl chloride sheet.
- 20 98. The decorative laminate of claim 97, wherein said substrate further comprises a second polyvinyl chloride sheet bonded to said first polyvinyl chloride sheet.

- 99. The decorative laminate of claim 98, wherein said first and second polyvinyl chloride sheets comprise a filled polyvinyl chloride.
- 100. The decorative laminate of claim 99, wherein said second polyvinyl sheet is less filled than the first polyvinyl sheet.
- 5 101. The decorative laminate of claim 98, wherein said second polyvinyl chloride sheet is bonded to said first polyvinyl chloride sheet with an adhesive.
 - 102. The decorative laminate of claim 96, wherein said substrate is directly bonded to said decorative laminate top layer assembly.
- 103. The decorative laminate of claim 96, wherein said polymeric material comprises PETG.